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Are They Really Teachers?

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What follows is a (searchable) text-only version.

Are They Really Teachers?

Virginia Baldwin

Dr. Michael Anderson

University of Nebraska - Lincoln

Course Content/Student level

- Undergraduate Engineering students, graduate students (masters and Ph.D. level) and interspersed.

- Subject areas covered

 - Mechanical Engineering (freshman level)

 - Engineering Mechanics (all graduate students)

 - Environmental Studies (graduate students)

 - Construction Management (graduate and UG courses)

Session Objectives

- Solving research problems

- Overview of literature types

- Article Indexes

- Search Tools

 - Truncation

 - Phrase Searching

 - Field Searching

 - Combining terms

- Accessing or Obtaining Information

- Broaden or narrow your search

Basic Approach

- Flow of Scientific Information Charts

 - Various sources of information

 - Evaluation of sources

 - Progression of information

- Preliminary

- Highly recognized and established

Basic Approach

- Information retrieval concepts

 - Accessing databases

 - Basic, Advanced search interfaces

- Assignment/Problem

 - Two Part

- Part I - Scholarly vs non-scholarly periodicals

- Part II - Use of various information sources for their research question

RESEARCH PROBLEM

- GIS and pedestrian safety

- Keywords

–GIS

–Geographic Information System

–pedestrian safety

–pedestrian accidents

–pedestrian crash(es)

–pedestrian(s)

Research Query About the Problem

- Problem: GIS and pedestrian safety

•Query? Is there any research using GIS that investigates factors influencing pedestrian and motor-vehicle crashes?

- Comparison of search results

Comparison of Search Results

Research Query About the Problem

- What are the different designs for mobile phones?

- What are the design characteristics of a model web search engine interface?

- What effects do admixtures have on concrete performance?

Compendex vs Transport

- Broadest search in Compendex (gis wn ky or geographic information system* wn ky) and pedestrian* wn ky (result: 12)

- Broadest search in Transport (gis or geographic* information system*) and pedestrian* (Words Anywhere) (result: 40)

- May need to use search concepts to narrow your search if there are too many results

- Select from indexes based on

- Depth and Breadth of your research

- Field(s) of study involved in your research

Compendex vs Transport

- Transport <http://www.unl.edu:2020/indexes/silver/transport.html>

–TRIS - Transportation Research Information Services

–IRRD- International Road Research Documentation

- Compendex <http://www.unl.edu:2020/journals/iris/compendex.html>

- Covers the Engineering Discipline

–Indexes articles in journals and Conference Proceedings in Engineering Literature

–Coverage 1970-present

- Component of Engineering Village 2

–Links to USPTO for patent searching

–Retrieve citations for industry specifications and standards

IN SUMMARY

- Librarian functions as a part of the class learning experience, not just there to tell about the library
- Hybrid application of PBL
 - Formerly - passive lecture about library processes
 - Becomes a problem-posing activity with problems originating from the class professor